



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
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355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

January 21, 1986

Mr. Glenn Mellor
Senior Geologist
Sunshine Mining Company
P. O. Box 250
Eureka, Utah 84628

Dear Mr. Mellor:

Re: Permit Review, Trixie Tailings Ponds Modification, ACT/049/009,
Utah County, Utah

The Division has reviewed the "Application for a Permit to Construct and Operate Tailings Ponds for the Trixie Mine", received December 20, 1985.

Some deficiencies have been found in the plan as outlined below. When a complete response to these items has been received the Division can issue approval for the ponds.

General

Design and placement of liners in the tailings ponds shall be subject to the requirements of State Health. The Division shall approve the design of the tailings ponds subject to compliance with such requirements by State Health.

Rule M-3(2) - LK

The applicant needs to define the type and rate of mulch to be used for interim revegetation.

Rule M-3(e) - DC

The applicant needs to submit a map depicting the undisturbed watershed from which the runoff will be diverted around the tailings ponds. The applicant must also submit the peak flow resulting from the 10-year, 24-hour precipitation event from the undisturbed watershed and calculations demonstrating that the diversion will be able to safely pass the peak flow value.

Page 2
Mr. Glenn Mellor
ACT/049/009
January 21, 1986

Rule M-5 - JRH

A cost estimate is required for the reclamation of the proposed tailings pond additions. However, additional bonding will not be required from Sunshine at this time due to the excess in the current bond amount for the main tailings pond and the Hunter Shaft area which are not yet disturbed.

When Sunshine commences work on the other proposed areas, the Division shall use the above cost estimate to adjust the bond amount at that time.

The cost estimate for the proposed tailings ponds shall include equipment selection, productivity and quantity estimates for the reclamation work. The operator shall also incorporate on the map, identification of the various disturbed areas by labelling such areas and referencing them in the plan. The map should also include the acreage for each individual disturbed area and the total estimated disturbed area for the operation.

A rider will have to be prepared by Sunshine for the bond which shall contain a description of the disturbed areas to be covered under the bond. (The above mentioned map could serve as an adequate description of the disturbed areas.) This rider shall incorporate the additional disturbed area from the tailing pond additions as well as all disturbed areas proposed under the currently approved reclamation plan. The rider must be signed by both Sunshine Mining Company and the Surety Company.

Rule M-10(8) - DC

The applicant must include a plan for the natural drainage after the reclamation of the tailings ponds. Will the drainage continue to be passed through the diversion or will a natural drainage pattern be established through the reclaimed ponds?

Rule M-10(14) - Soils - JSL

One soil sample from each proposed pond site must be analyzed and the results submitted to the Division.

The tailings material must be analyzed at the time of reclamation to detect possible contaminants and/or toxicity. The analysis will include Sodium Absorption Ratio (SAR) as well as all parameters submitted in the December 17, 1985 submittal.

Page 3

Mr. Glenn Mellor

ACT/049/009

January 21, 1986

Please feel free to contact me if I can provide further assistance.

Sincerely,

A handwritten signature in cursive script, appearing to read "Susan C. Linner".

Susan C. Linner
Reclamation Biologist/
Permit Supervisor

jvb

cc: L. Braxton

R. Harden

L. Kunzler

J. Leatherwood

D. Cline

0028R-49